UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/817,917	03/26/2001	Sanjay Mathur	05222.00109	8131

30498 7590 07/30/2004	EXAMINER
VEDDER PRICE/ACCENTURE	SHIN, KYUNG H

222 NORTH LASALLE STREET	ART UNIT	PAPER NUMBER
CHICAGO, IL 60601	2143	

DATE MAILED: 07/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/817,917	MATHUR ET AL.
	Examiner	Art Unit	
	Kyung H Shin	2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>26 March 2004</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-29</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-29</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>26 March 2004</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>12/23/03</u>.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____ .

DETAILED ACTION

1. This action is responding to application papers dated 3/26/2001.

2. Claims **1-29** are pending. Claims **1, 9, 16, 21, 27, 28, and 29** are

independents.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4.   **Claims 1-29** are rejected under 35 U.S.C. 102(e) as being anticipated by

Alexander. (US Patent No. 6,732,331 B1, filed on Feb. 15, 2000)

Regarding Claims 1, A method, of associating contextual information with

discrete components of data, the method comprising:

a) accessing at least one discrete component of data from at least one

data source; (see col. 2, lines 57-59: *"... for managing content organized*

... using metadata.") content (component of data)

b) associating said at least one discrete component of data with at least

one domain; (see col. 2, lines 49-52: *"...for managing content, such as for*

use in Web pages and similar constructs, which generates templates

containing data describing data, known as metadata.")

c) adding domain specific contextual information to said at least one

discrete component of data to provide enhanced data. (see col. 2, lines

65-67: *"Each data entry element includes a set of information attributes*

describing the data entry element.") enhanced data: content plus

metadata (contextual information)

Regarding Claim 2, The method of claim 1, further include the step of: assigning

access rights to the enhanced data. (see col. 4, lines 57-63: *"Authorization*

module 22 controls access permissions to data managed by the content

management framework 18. ... to provide authorized personnel with access to

create, update and delete templates and data documents,")

Regarding Claim 3, The method of claim 1, further include the step of: assigning

usage rules to the enhanced data. (see col. 4, lines 57-63: *"... grant or deny*

access to view individual data elements on Web pages created from the data

managed by the content management framework 18.")

Regarding Claim 4, The method of claim 1, further include step of: encoding the enhanced data with a markup language. (see col. 4, lines 26-29: *"The Web server 17 and clients communicate using the HyperText Transport Protocol (HTTP). Typically, each Web page is written in the HyperText Markup Language (HTML),"*)

Regarding Claim 5, The method of claim 4, wherein the markup language comprises the Extensible Markup Language. (see col. 4, lines 31-33: *" ... , although other tag-delimited languages, such as the Extensible Markup Language (XML) can also be used."*)

Regarding Claim 6, The method of claim 1, further including the steps of:

     a) associating said at least one discrete component of data with a second domain', (see col. 6, lines 23-26: *"The metadata layer 41 includes one or more metadata template 44 .... shown in FIG. 2) which each describe information about the data stored in Web pages ..."*) one or more different metadata templates describe one or more different domains (categories)

     b) adding domain specific contextual information to said at least one discrete component of data to provide second enhanced data. (see col. 2, lines 65-67: *"Each data entry element includes a set of information attributes describing the data entry element."*) enhanced data (content plus metadata)

Regarding Claim 7, The method of claim 1, further including the steps of:

a) receiving feedback data from a user of the enhanced data; (see col.

11, lines 48-50: *"Form updating begins with retrieving the XML content*

containing the content data for the data entry form (block 189).") feedback

(form updates)

b) modifying the enhanced data to include the feedback data. (see col.

11, lines 56-58: *"The retrieved XML content is then updated with the new*

data values received as input parameters of the HTTP "POST" request

(block 190).")

Regarding Claim 9, A method of delivering enhanced data through at least one

digital identity comprising the steps of:

a) receiving a request through at least one digital identity for enhanced

data from a requestor; (see col. 4, lines 19-23: *" a Web server... a content*

management framework...Web pages are retrieved from a storage device

19 and sent to the requesting client.") web server (digital identity) receives

an enhanced data request

b) using a digital identity to compare an identification of the requestor to

access rights; (see col. 4, lines 50-56: *"...the content management*

framework 18 can operate in conjunction with associated

applications...functional modules: authorization 22,") requestor

(requesting client) access controls checked

c) transmitting from the digital identity to an enhanced content source an

approval to release enhanced data; (see col. 5, lines 12-14: *"...*

authorization module...to limit exchanged data to only that data to which

the participants are authorized.") determine that requestor is authorized

(enhanced data released)

d) transmitting enhanced data from the enhanced content source to the

requestor. (see col. 6, lines 45-49: *"... request from a client, the Web*

server... retrieves the XML document 56 which is combined with metadata

retrieved from the SQL server database...")

Regarding Claim 10, The method of claim 9, further including the step of:

comparing at the digital identity an intended use of the enhanced data to usage

rules. (see col. 4, lines 57-63: *"controls access permissions to data managed by*

the content management framework...grant or deny access to view individual

data elements") usage rules applied to data

Regarding Claim 11, The method of claim 9, wherein the digital identity is

associated with an entity and is operated by a party other than the entity. (see

col. 4, lines 19-23: *"The server 11 includes ... Web server...services requests for*

Web pages received from the clients." ; col. 5, lines 33-39: *"The server 11 is... a*

network server ....running a server-capable operating system,") web server

(digital identity) entity operates on associated network server entity.

Regarding Claim 12, The method of claim 9, wherein the digital identity is associated with an entity and is operated by the entity (see col. 4, lines 19-23: "The server 11 includes...applications, a Web server..."; and col. 4, lines 23-24: *"Web pages are retrieved from a storage device 19 and sent to the requesting client."*) web server (digital identity) entity controls operation of content management entity.

Regarding Claim 13, The method of claim 9, wherein the digital identity is associated with an entity and the enhanced content sotlrce is operated by a party other than the entity. (see col. 4, lines 19-23: *"... two applications, a Web server... and a content management framework...the Web server 17 services requests for Web pages received from the clients."* ; and col. 37-38: *"The content management framework...manage the content of Web pages."*) web server application (digital identity) entity; content management application entity: separate entities.

Regarding Claim 14, The method of claim 9, further including the step of: transmitting feedback rules from the enhanced content source to the requestor. (see col. 11, lines 59-64: *"... form-updating options....Thus, pressing the "+" button will add a class of controls to the data entry form while pressing the "-" button will delete a class of controls."*) setup feedback rules

Regarding Claim 15, The method of claim 14, wherein the feedback rules

comprise an incentive for the requestor to provide feedback to the enhanced

content source. (see col. 11, lines 56-58: *"The retrieved XML content is then*

updated with the new data values received as input parameters") feedback rules ·

Regarding Claim 16, A method of obtaining information about services that may

be of interest to a user, the method comprising:

a) discovering at least one service offered by at least one entity connected

to at least one 20 computer network; *"... two applications, a Web server 17*

and a content management framework 18....Web server 17 services

requests for Web pages received from the clients.") available services

b) receiving content from said at least one entity that includes terms of

said at least one service; (see col. 4, lines 59-62: *"... to provide authorized*

personnel with access to create, update and delete templates and data

documents, as well as grant or deny access to view individual data

elements on Web pages.") terms for an available service

c) filtering the content to determine whether the content satisfies at least

one predetermined rule (see col. 5, lines 1-5: *"...Data reader*

module...works with authorization module 22 to filter out any data that a

user of the data reader 24 is not permitted to access.") filter enhanced data

d) generating at least one decision parameter based on profile and

preference inforrmation; (see col. 4, lines 57-63: *"Authorization module 22*

controls access permissions to data managed by the content management

framework...provide authorized personnel... grant or deny access to view individual data elements") decision parameter: access controls

e) determining whether the tenns of said at least one service are acceptable based on at least one decision parameter. (see col. 5, lines 11-17: *"enables data to be exchanged across systems... to limit exchanged data to only that data to which the participants are authorized."*) match decision parameter to terms

Regarding Claim 17, The method of claim 16, wherein the discovering step is performed dynamically. (see col. 4, lines 19-23: *"... two applications, a Web server 17 and a content management framework 18. At a basic level, the Web server 17 services requests for Web pages received from the clients..."*) User discovers services available.

Regarding Claim 18, The method of claim 16, further including the step of: negotiating with the at least one entity. (see col. 5, lines 11-17: *"...authorization module 22 to limit exchanged data to only that data to which the participants are authorized."*) Based on authorization, access and usage determined.

Regarding Claim 21, A computer-readable medium having stored thereon a data structure comprising:

a) at least one discrete component of data from at least one data source;

(see col. 2, lines 57-59)

b) first contextual information that enhances said at least one discrete

component of data for a first domain; (see col. 2, lines 49-52)

c) second contextual information that enhances said at least one discrete

component of data for a second domain; (see col. 2, lines 65-67)

d) wherein the first domain is different from the second domain. (see col.

1, lines 42-51)

Regarding Claim 22, The computer readable medium of claim 21, wherein the

data structure is encoded with a markup language. (see col. 4, lines 26-29)

Regarding Claim 23, The computer readable medium of claim 22, wherein the

markup language comprises the Extensible Marlûup Language. (see col. 4, lines

31-33)

Regarding Claim 24, The computer readable medium of claim 21, further

including a data field defining usage rules. (see col. 4, lines 57-63)

Regarding Claim 25, The computer readablt medium of claim 21, further

including a data field defining feedback rules. (see col. 11, lines 48-50)

Regarding Claim 26, The computer readable medium of claim 21, further

including a data field defining access rights. (see col. 4, lines 57-63)

Regarding Claim 27, A computer-readable medium having computer-executable instructions for performing the steps comprising:

a) accessing at least one discrete component of data from at least one data source; (see col. 2, lines 57-59)

b) associating said at least one discrete component of data with at least one domain; (see col. 2, lines 49-52)

c) adding domain specific contextual information to said at least one discrete component of data to provide enhanced data. (see col. 2, lines 65-67)

Regarding Claim 28, A computer-readable medium having computer-executable instructions for performing the steps comprising:

a) receiving a request through at least one digital identity for enhanced data from a requestor; (see col. 4, lines 19-23)

b) using a digital identity to compare an identitication of the requestor to access rights; (see col. 4, lines 50-56)

c) transmitting from the digital identity to an enhanced content source an approval to release adding domain specitic contexmal information to said at least one discrete component of data to enhanced data; (see col. 5, lines 12-14)

d) transmitting enhanced data from the enhanced content source to the requestor. (see col. 6, lines 45-49)

Regarding Claim 29, A computer-readable medium having computer-executable

instnzctions for performing the steps comprising:

    a) discovering at least one service offered by at least one entity connected

to at least one computer network; (see col. 4, lines 19-23)

    b) receiving content from said at least one entity that includes terms of

said at least one service; (see col. 4, lines 59-62)

    c) filtering the content to determine whether the content satisfies at least

one predetermined rule (see col. 5, lines 1-5)

    d) generating at least one decision parameter based on profile and

preference information; (see col. 4, lines 57-63)

    e) determining whether the terms of sald at least one servlce are

acceptable based on at least one decision parameter. (see col. 5, lines 11-

17)

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis

for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described
> as set forth in section 102 of this title, if the differences between the subject matter sought to
> be patented and the prior art are such that the subject matter as a whole would have been
> obvious at the time the invention was made to a person having ordinary skill in the art to which
> said subject matter pertains. Patentability shall not be negatived by the manner in which the
> invention was made.

6. **Claims 8, 19, 20** are rejected under 35 U.S.C. 103(a) as being unpatentable

over by **Alexander** (US Patent No. 6,732,331), in view of **Bowman-Amuah** (US

Patent No. 6,697,824)

Regarding Claim 8, Alexander does not explicitly disclose real-time process, however, Bowman-Amuah discloses wherein the adding step is performed in real-time. (see Bowman-Amuah col. 37, lines 9-12: *"Content and information is personalized for the user in real time--while the user interacts with the application or site." ,and* col. 18, lines 32-36: *"A mission-critical high-volume transaction delivery vehicle may require special performance tuning tools in the development architecture, as well as real-time monitoring tools in the operations architecture."*)

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Alexander to incorporate the step performed in real-time as taught in Bowman-Amuah. One of ordinary skill in the art would be motivated to modify Alexander to employ the invention of Bowman-Amuah in order to improve the performance by providing user interface components on dynamic Web pages. (see Bowman-Amuah col. 10, lines 7-19)

Regarding Claim 19, Alexander discloses a web server providing content to users. Alexander does not disclose financial (billing) information transferred from the user to purchase the content. However, Bowman-Amuah discloses financial (billing) information transferred from the user to complete a transaction. (see Bowman-Amuah col. 80, lines 54-61: *"If the user decides to purchase the items...will be prompted for shipping and payment information. ... then routes it to the payment services function ...."*) Customer information provided to complete transaction.

It would have been obvious to one of ordinary skill in the art at the time of

the invention was made to modify Alexander to incorporate financial (billing) information transfer as taught in Bowman-Amuah. One of ordinary skill in the art would be motivated to modify Alexander to employ the invention of Bowman-Amuah in order to enhance the content system by providing an increased complexity of interaction for billing (financial) services between clients and servers. (see Bowman-Amuah col. 2, lines 4-13)

Regarding Claim 20, Alexander discloses a web server providing content to users. Alexander does not disclose monitoring financial (billing) transactions and updating personal information after financial (billing) transactions. However, Bowman-Amuah discloses:

a) monitoring a transaction involving the at least one service; . (see Bowman-Amuah col. 45, lines 36-41: *"...information can be captured directly from the user's interaction with the site."*)

b) modifying the profile and preference information as a result of the monitoring step. (see Bowman-Amuah col. 45, lines 36-41: *"Once the profile strategy has been defined..., the next step is capturing the information....the data may require refinement or replication. The remaining information can be captured directly from the user's interaction with the site."*) Update customer information.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Alexander to incorporate monitoring financial (billing) transactions and updating personal information

after financial (billing) transactions as taught in Bowman-Amuah. One of

ordinary skill in the art would be motivated to modify Alexander to employ

the invention of Bowman-Amuah in order to enhance the content system by

providing proper and effective way of protecting transactions and profile

information to member merchants in the complexity of interaction for billing

(financial) services between clients and servers. (see Bowman-Amuah col.

81, lines 26-33)

Contact Information

7.   Any inquiry concerning this communication or earlier communications

from the examiner should be directed to Kyung H Shin whose telephone number

is 703-305-0711. The examiner can normally be reached on 9 am - 7 pm.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, David A Wiley can be reached on 703-308-5221. The fax

phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

for published applications may be obtained from either Private PAIR or Public

PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

KHS

Kyung H Shin
Patent Examiner
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July 23, 2004

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